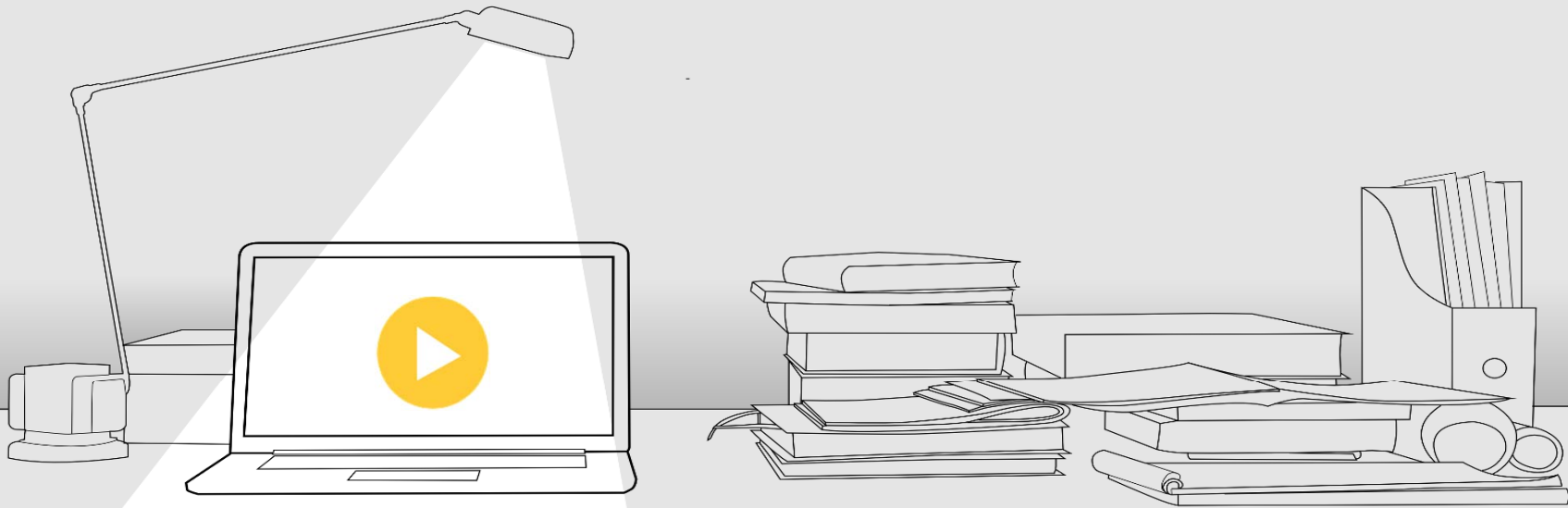




Your Open Science and  
Research Publishing Platform



# What can Scipedia offer ...

## ... for researchers?

## ... for Open Science?

- Personal / project / community profile
- Thematic / personal / project repositories
- Enriched web publishing
- Online collaborative edition
- Discussion forums / groups
- Open Access / Open Data
- Open peer-reviewed journals

Register for free at <https://www.scipedia.com> to download the version



# What can Scipedia offer ... ... for researchers?



Register for free at <https://www.scipedia.com> to download the version

- Personal profile
  - Overview
  - Publications
  - Experience, skills
  - Google Scholar link
- Activity panel and messaging tools
  - Public
  - Followers
  - Groups
- Personal repositories
- Analytics

# What can Scipedia offer ... ... for researchers?

Register for free at <https://www.scipedia.com> to download the version



- Personal / thematic repositories for self-archiving:
  - Papers (preprints, ...)
  - Research reports
  - Monographs
  - ...
- Customized page
  - URL
  - Title and banner
  - About and info
  - Statistics
- Search tools
- Indexing support (metadata)

# What can Scipedia offer ... ... for researchers?

The screenshot shows a web browser displaying a Scipedia document. The browser's address bar shows the URL [https://www.scipedia.com/public/Onate\\_et\\_al\\_2017b](https://www.scipedia.com/public/Onate_et_al_2017b). The page header includes the Scipedia logo and navigation links: Profile, Library, My network, Groups, and Help. The document title is "Advances in the DEM and coupled DEM and FEM techniques in non linear solid mechanics" by Eugenio Oñate. The page features a sidebar with tabs for "Read document", "Discussion", "Edit", "Visual Editor", "Edit data", and "History". The main content area includes an abstract, a full document preview with sections like "1 INTRODUCTION" and "2 A LOCAL DEM MODEL", and a right-hand sidebar with sections for "DOCUMENT INFORMATION", "DOCUMENT SCORE", "SHARE THIS DOCUMENT", and "KEYWORDS".

PDF viewer

Online editor to add:

- text, references, links
- datasets
- video
- ...

- Linked to authors/inst. profile
- Information
- Indexing support (metadata)
- Keywords (tags)
- Categories
- DOI and doc. info
- Licence

Other utilities:

- Discussion forum
- Revisions history
- Share this document
- Document score
- Views / recommend.

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# What can Scipedia offer ... ... for researchers?

Hydrodynamic analysis

Es seguro | [https://www.scipedia.com/public/Durán\\_García-Espinoza\\_664570884](https://www.scipedia.com/public/Durán_García-Espinoza_664570884)

Aplicaciones | Fossil Compass | Real Academia Española | WordReference | Linguee | Traductor de Google | MEGA | Wallstreet | Otros marcadores

SCIPEDIA | Profile | Publications | My network | Groups | Search

Repository of the International Center for Numerical Methods in Engineering (CIMNE)  
**Time domain simulation of coupled sloshing-seakeeping problems by SPH-FEM coupling**  
Borja Servan Camas · J.L. Cercós-Pita, Jonathan Colom · Julio García-Espinoza

How to cite | Document data

Read document | Edit | Visual Editor | Edit data | History

**Case 1: Cable under its self weight** [edit]

The first case is based on that presented in [47]. It consists of an anchored cable, with fixed ends, subjected to its own weight. Initially the cable has a flat form. The expected deformation is in a flat form, and the reactions at the ends must be equal to the cable weight. The properties of the cable are: the stiffness  $E A = 50$  N, the weight per unit length  $w = 0.4$  N/m, and **14.1421** m of span length.

Next, a video of the analysis case 1 is presented:

OC3 spar buoy wind turbine coupled simulation

Video 1: OC3 spar buoy wind turbine coupled simulation (analysis case 1)

THE TWO EXERCISES ABOVE INCLUDE THE RESULTS OF THE TIME-DEPENDENT ANALYSIS OF THE CABLE UNDER ITS OWN WEIGHT (CORRESPONDING TO CASE 1).

Case\_1.xlsx

References [edit]

- 1] Breton SP, Moe H. Status, plans and technologies for offshore wind turbines in Europe and North America. *Renew Energy*. 2009;34:646-54.
- 2] Karimirad M, Meissonnier Q, Gao Z, Moan T. Hydroelastic coupled-code comparison for a tension leg spar-type offshore wind turbine. *Marine Structures*. 2016;54:1-25.

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DOCUMENT INFORMATION

Published on 22/09/17  
DOI: 10.1016/j.rimni.2015.09.003  
Licence: CC BY-NC-SA license

DOCUMENT SCORE

5  
Views 0  
Recommendations 3

SHARE THIS DOCUMENT

f t in G+

KEYWORDS

Sloshing · Coupling · SPH · FEM · LNG · Seakeeping

STRUCTURAL MEMBRANES 2017  
Munich, Germany - October 9-11

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- Enriched web format
  - text, references, links
  - datasets
  - video
  - ...
- Online (collaborative) edition
- Linked to authors/inst. profile
- Information
  - Indexing support (metadata)
  - Keywords (tags)
  - Categories
  - DOI and doc. info
  - Licence
- Other utilities:
  - Export to PDF and EPUB
  - Discussion forum
  - Revisions history
  - Share this document
  - Document score
  - Views / recommend.

# What can Scipedia offer ... ... for researchers?

Every document has a discussion forum (for authors and registered users)

Archive all your work (presentations, conference or seminar videos, data, ...)

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The collage illustrates the Scipedia platform's capabilities for researchers. It includes screenshots of document listings, discussion forums, and detailed document pages. Key features highlighted include:

- Document Listings:** A search bar, navigation tabs (Profile, Library, My network), and a list of documents. One document titled "A computational model for the evaluation of the spray generation of a Wave Adaptive Modular Vessel" is featured, published on 23/12/16 by Julio Garcia-Espinosa, Eugenio Oriate, Borja Serván-Camas, and others.
- Discussion Forum:** A section titled "Discussor: Prof. Sergio Idelsohn" shows a discussion thread for the same document, dated 337 days ago. The discussion mentions the application of the method by a single vessel and the use of PFEM (Particle Finite Element Method) as a Lagrangian method based on particle streamlines.
- Document Details:** A detailed view of the document "A computational model for the evaluation of the spray generation of a Wave Adaptive Modular Vessel" by J. Garcia-Espinosa, E. Oriate, B. Serván-Camas, P. Nadukandi, and P.A. Becker. It includes an abstract, a presentation slide, and a recording of the presentation. The abstract describes the macroscopic behavior of crystalline materials and the application of the PFEM method. The presentation slide shows a diagram of a vessel and the spray generation process.
- Document Score and Keywords:** A "DOCUMENT SCORE" section with a bar chart showing 0 points and 5 stars. A "KEYWORDS" section lists: Seakeeping, Spray, Ship hydrodynamics, WAM-V, Semi-Lagrangian formulation.
- Share and Claim:** A "SHARE THIS DOCUMENT" section with social media icons (Facebook, Twitter, LinkedIn, Google+). A "CLAIM AUTHORSHIP" section asks if the user is one of the authors of the document.
- 31st Symposium on Naval Hydrodynamics:** A banner for the 31st Symposium on Naval Hydrodynamics, held in Barcelona, Spain, from September 1-3, 2015.

# What can Scipedia offer ... ... for Open Science?

Open up your research

Create a profile for your open science community or project

- Build an active community of contributors around your open research project
- Create and manage discussion groups around your project
- Connect and collaborate with researchers from around the world
- Share your work at any stage of the research cycle
- Receive contributions from your colleagues
- Create repositories to archive and share your research reports and data
- Work collaboratively on your research reports (online editor / version history) and open discussion forums about them
- Create and manage collaborative open peer-review journals on your research topics

The screenshot displays the Scipedia website interface. At the top, the browser address bar shows the URL <https://www.scipedia.com/instituto/aulas.cimne.com>. The Scipedia logo and navigation menu (Profile, Library, My network, Groups, Help) are visible. The main content area features the 'Aulas CIMNE Network' profile, including a group photo of members and a detailed description of the project's goals and objectives. The profile also includes sections for 'INFORMATION' (Address, Website), 'MEMBERS' (a grid of member avatars), and 'ANALYTICS' (Reputation score, Contributions, Views).

**Aulas CIMNE Network Project**

The clear need to generalize knowledge and application of Numerical Methods in a global context is behind the idea of the creation of "Aulas CIMNE" (note "Aula" is the Spanish word for "classroom") specialized in this discipline and distributed worldwide. The Aulas CIMNE Network aim is to become key in promoting the exchange of knowledge and tools between different types of entities relevant to the world of Numerical Methods. Also intended to be a source to support those groups that in the process of growth can greatly benefit from the services offered.

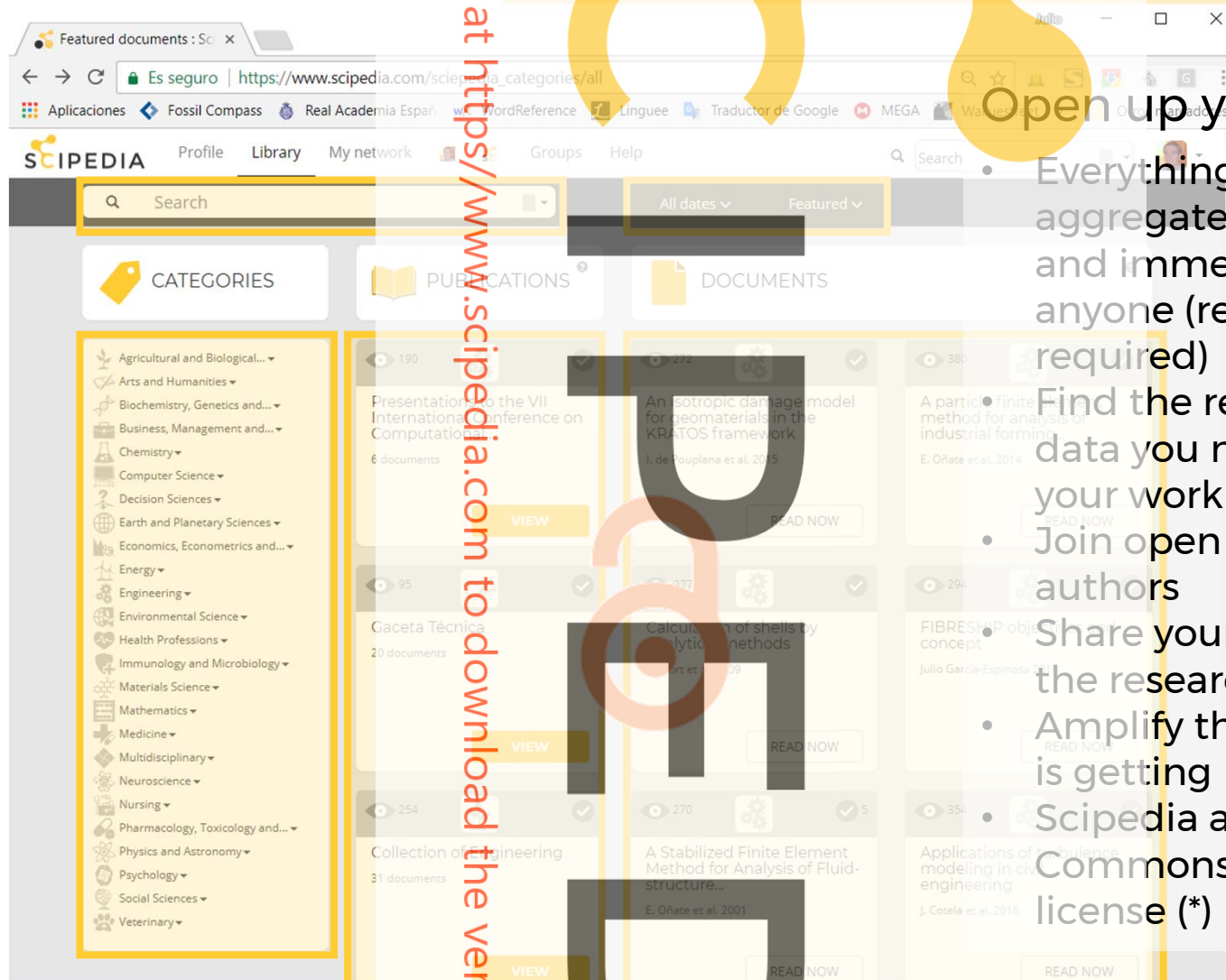
**Objectives**

- Be recognized worldwide as the network of expert units in the field of Numerical Methods applied to engineering.
- To be an international network with Aulas CIMNE established in every continent.
- Create free international exchange of knowledge and tools in numerical methods, among Network members through previously established policies.
- Support with computer software licenses and materials for all those members who at the time

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# What can Scipedia offer ... ... for Open Science?



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## Open up your research

- Everything Scipedia publishes / aggregates / archives is freely and immediately available to anyone (registration is not required)
- Find the research papers and data you need to help you in your work
- Join open discussions with authors
- Share your work at any stage of the research cycle
- Amplify the attention your work is getting
- Scipedia applies the Creative Commons Attribution (CC BY) license (\*)

# What can Scipedia offer ... ... for Open Science?

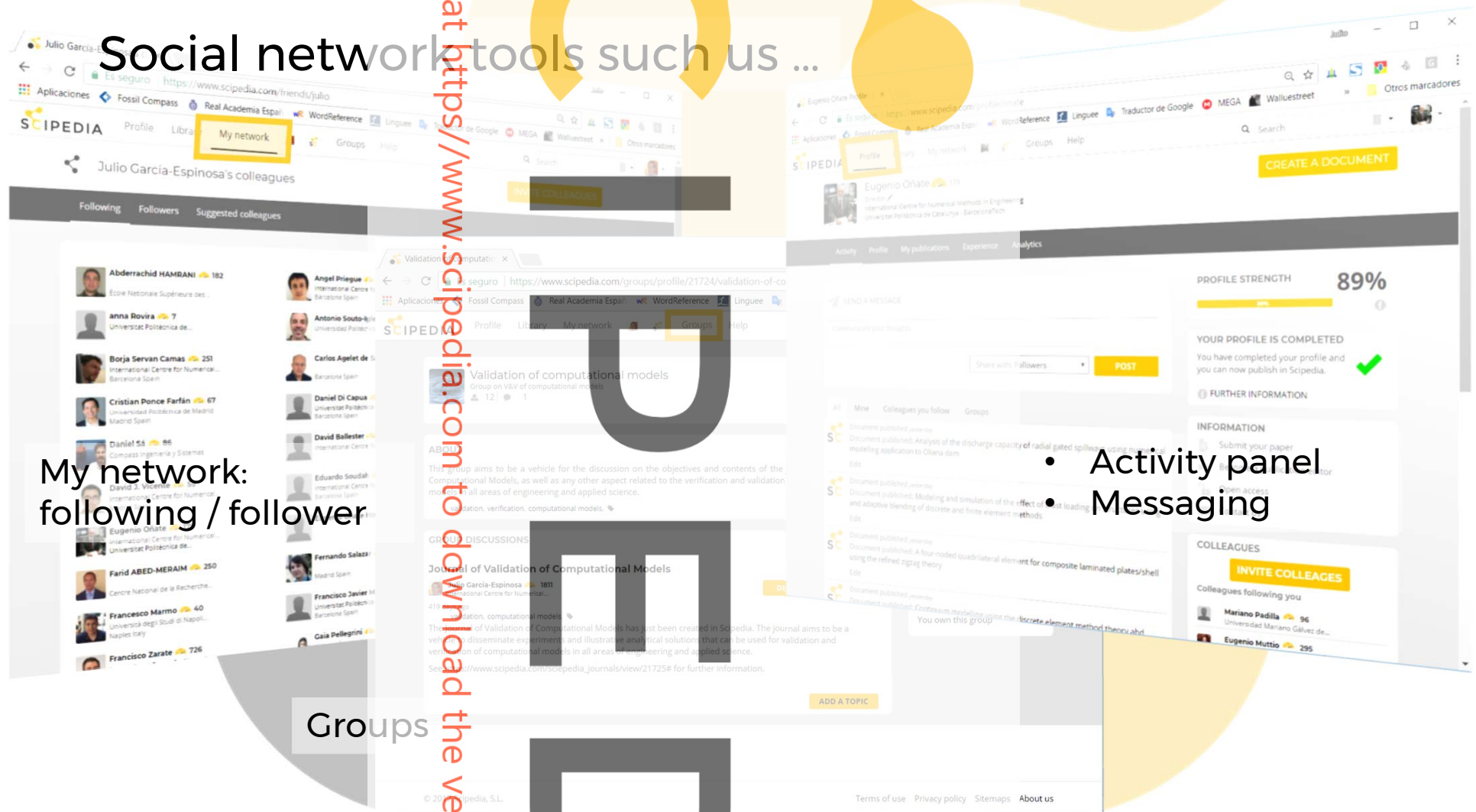
Social network tools such as ...

My network:  
following / follower

Groups

- Activity panel
- Messaging

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# What can Scipedia offer ... ... for Open Science?

The article is made public immediately after being sent to the open journal

A discussion forum is then open for any registered user to add review comments.

The authors should answer all the comments and if required correct or improve the paper accordingly.

The reviewer can reply or recommend (vote) the paper to be published or rejected.

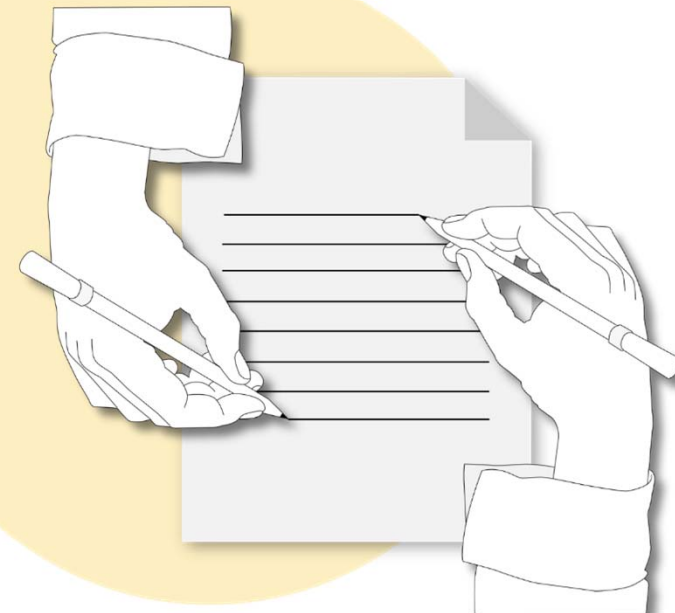
The score of the vote of the reviewer will depend on his reputation, as defined by the review score formula  $rs = \sum w_e \cdot f$ .

Once the accumulated score of the reviewers' votes reaches a threshold, the paper status will change to 'accepted'.

## Open Review / Open Data

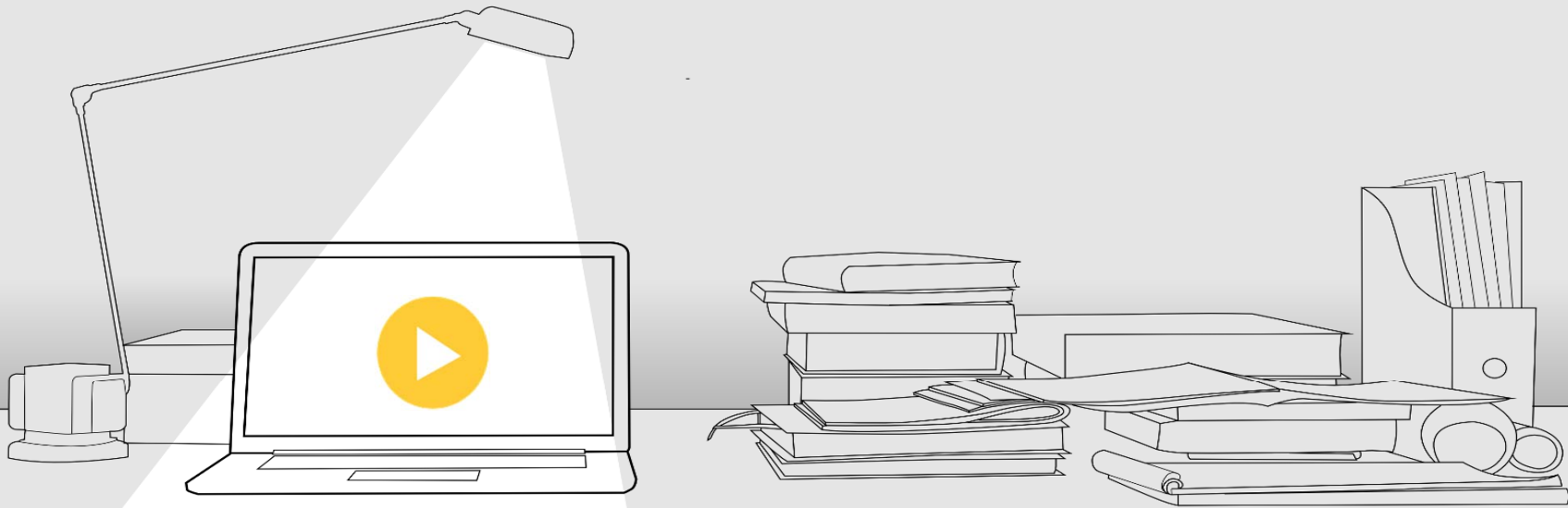
In addition to the traditional (blind peer-reviewed) journals ...

- Collaborative open peer-reviewed journals (immediate publication, transparent review, collaboration ...)
- Open data journals (share datasets, models and more)





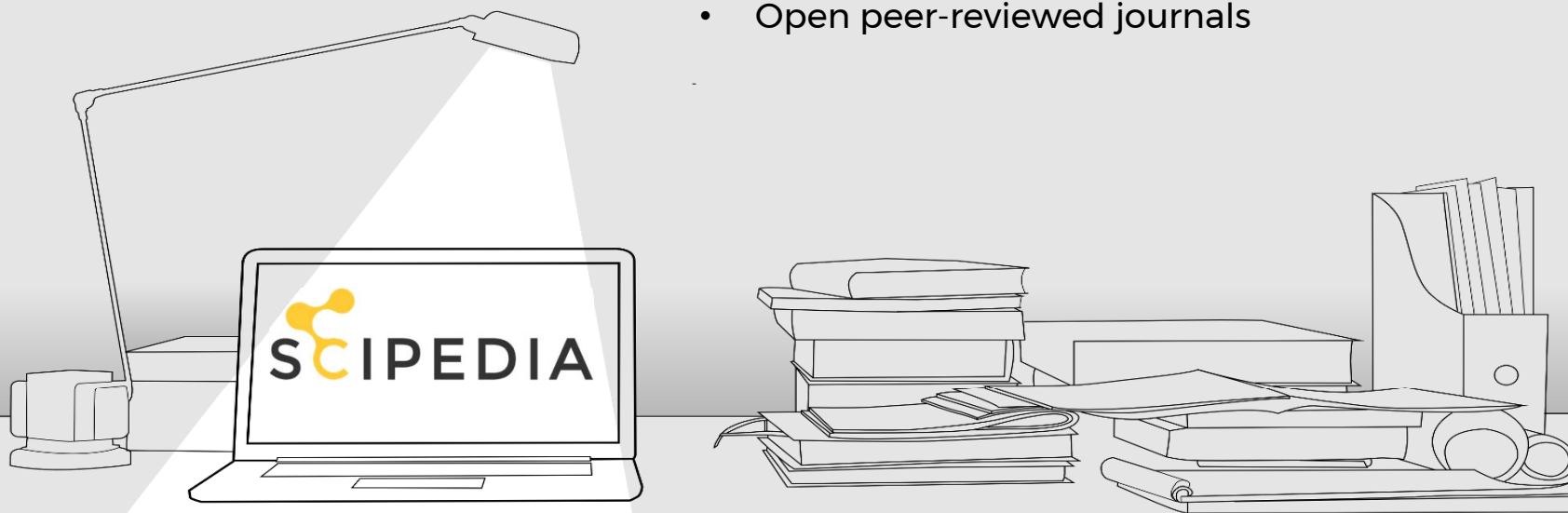
Your Open Science and  
Research Publishing Platform





# What can Scipedia offer ... ... for institutions?

- Institution / department / group / profile
- Institution / department / group repositories
- Institution / department / group analytics
- Management of multiple affiliations
- Open Access / Open Data archives
- Open peer-reviewed journals



# What can Scipedia offer ... ... for institutions?

The screenshot shows a web browser window displaying the Scipedia institutional profile for CIMNE. The browser's address bar shows the URL <https://www.scipedia.com/institution/cimne.upc.edu>. The Scipedia logo and navigation menu (Profile, Library, My network, Groups, Help) are at the top. The profile header for CIMNE includes its logo, name, and location: "International Centre for Numerical Methods in Engineering, Barcelona (Spain)". A navigation bar below the header has tabs for Overview, Contributions, Members, and Analytics, with "Overview" currently selected. The main content area features a large image of a modern building, followed by a detailed text description of CIMNE's history and mission. To the right, there are three summary boxes: "INFORMATION" with address and website details, "MEMBERS" showing a grid of member avatars, and "ANALYTICS" displaying reputation score, contributions, and views.

International Centre for Numerical Methods in Engineering  
Barcelona (Spain)

Overview Contributions Members Analytics

**INFORMATION**

Address  
Campus Nord UPC. CIMNE Building C1. C/ Gran Capità, S/N 08034 Barcelona, Spain

Head of institution  
Eugenio Oñate 179  
International Centre for Numerical...

Website  
<http://www.cimne.com/>

**MEMBERS**

**ANALYTICS**

Metric	Value
Reputation score	6564
Contributions	1006
Views	8849

## Institutional profile

- Customized URL
- Home page
  - Overview
  - Information
- Linked to repositories
  - Institutional
  - Departments
  - Personal
- Directory (members)
- Analytics
- Curation (edition)

# What can Scipedia offer ... ... for institutions?

The screenshot shows the Scipedia interface for the CIMNE institution. The browser address bar indicates the URL: <https://www.scipedia.com/institution/cimne.upc.edu?section=publications>. The page features a navigation bar with 'Profile', 'Library', 'My network', 'Groups', and 'Help'. The main content area is divided into sections: 'Contributions' (highlighted), 'Members', and 'Analytics'. Under 'Contributions', there are three repository cards: 'Papers Repository of the International Centre for Numerical Methods in Engineering (CIMNE)', 'Technical Reports of the International Centre for Numerical Methods in Engineering (CIMNE)', and 'Presentations to the VI International Conference on Coupled Problems in Science and Engineering'. Each card shows a 'Scope' description, statistics (documents, views, and a 5/5 rating), and a 'READ' button. The 'Members' section displays a grid of member avatars. The 'Analytics' section shows a 'Reputation score' of 6564 and 'Views' of 8849. The 'Information' sidebar on the right provides details about the institution's address, head of institution (Eugenio Oñate), and website.

## • Repositories

- Preprints / open access papers
- Research / Project reports
- Monographs
- Proceedings / presentations
- Open data repositories
- ...

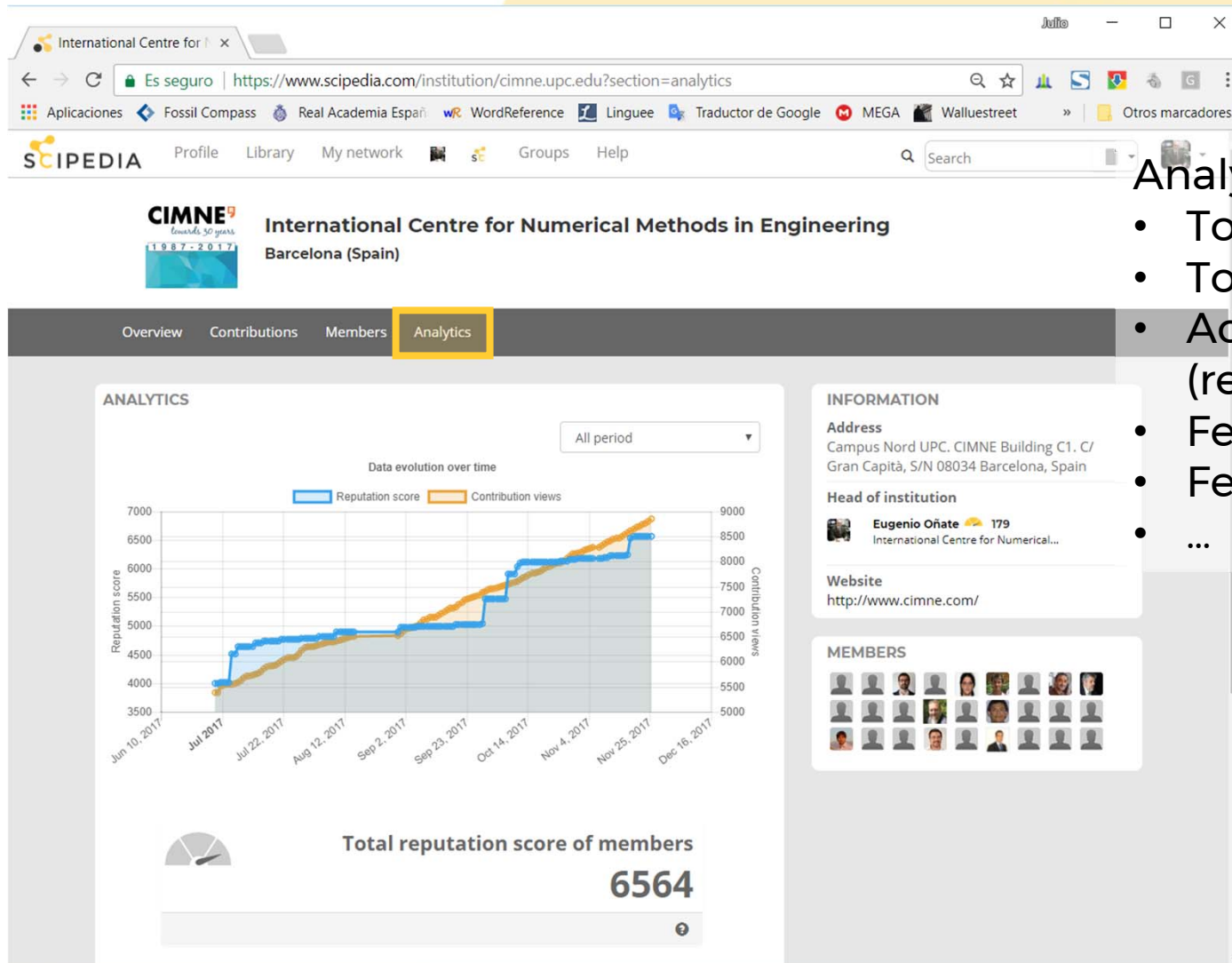
## • Links to selected archives

- Institutional
- Departments / groups
- Personal

## • Journals

## • Multiple links to documents

# What can Scipedia offer ... ... for institutions?



## Analytics

- Total views
- Total contributions
- Activity index (reputation)
- Featured members
- Featured documents
- ...



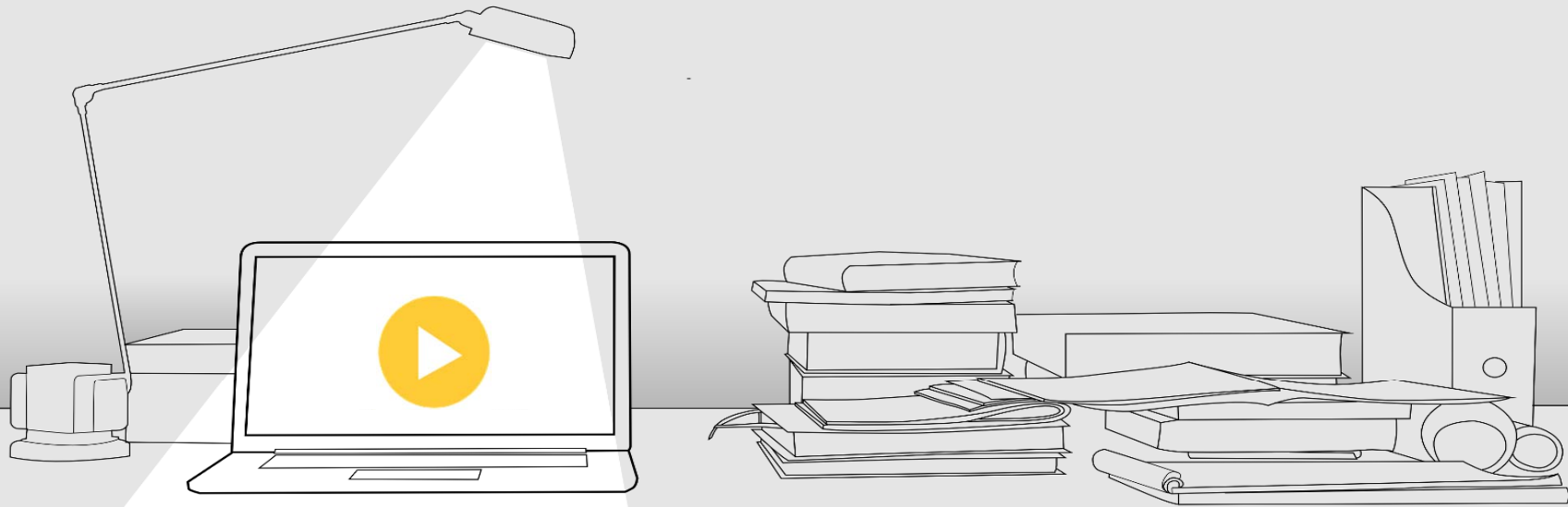
# What can Scipedia offer ... ... for institutions?

The image is a composite screenshot of the Scipedia web application. It features three overlapping browser windows. The top-left window shows the profile of the 'International Centre for Numerical Methods in Engineering (CIMNE)' in Barcelona, Spain, with a 'Members' tab highlighted. The top-right window shows a personal profile for 'Julio García-Espinosa', who is affiliated with CIMNE and the 'Department of Naval Architecture and Ocean Engineering (MARINE)' at the 'Universitat Politècnica de Catalunya - BarcelonaTech'. The bottom window shows the profile of 'Universitat Politècnica de Catalunya - BarcelonaTech' (UPC), which includes a list of members on the left and an 'Information' section on the right. The member list includes names like Julio García-Espinosa, María Jesús Samper, and Eduardo Soudah. The information section for UPC lists its address, head of institution (Enric Fossas), and website. A 'Strength 100%' indicator is visible on the right side of the bottom window.

Multiple affiliations link personal profile with profiles of schools, departments, research groups, affiliated research centers, ...



What can Scipedia offer ...  
... for institutions?

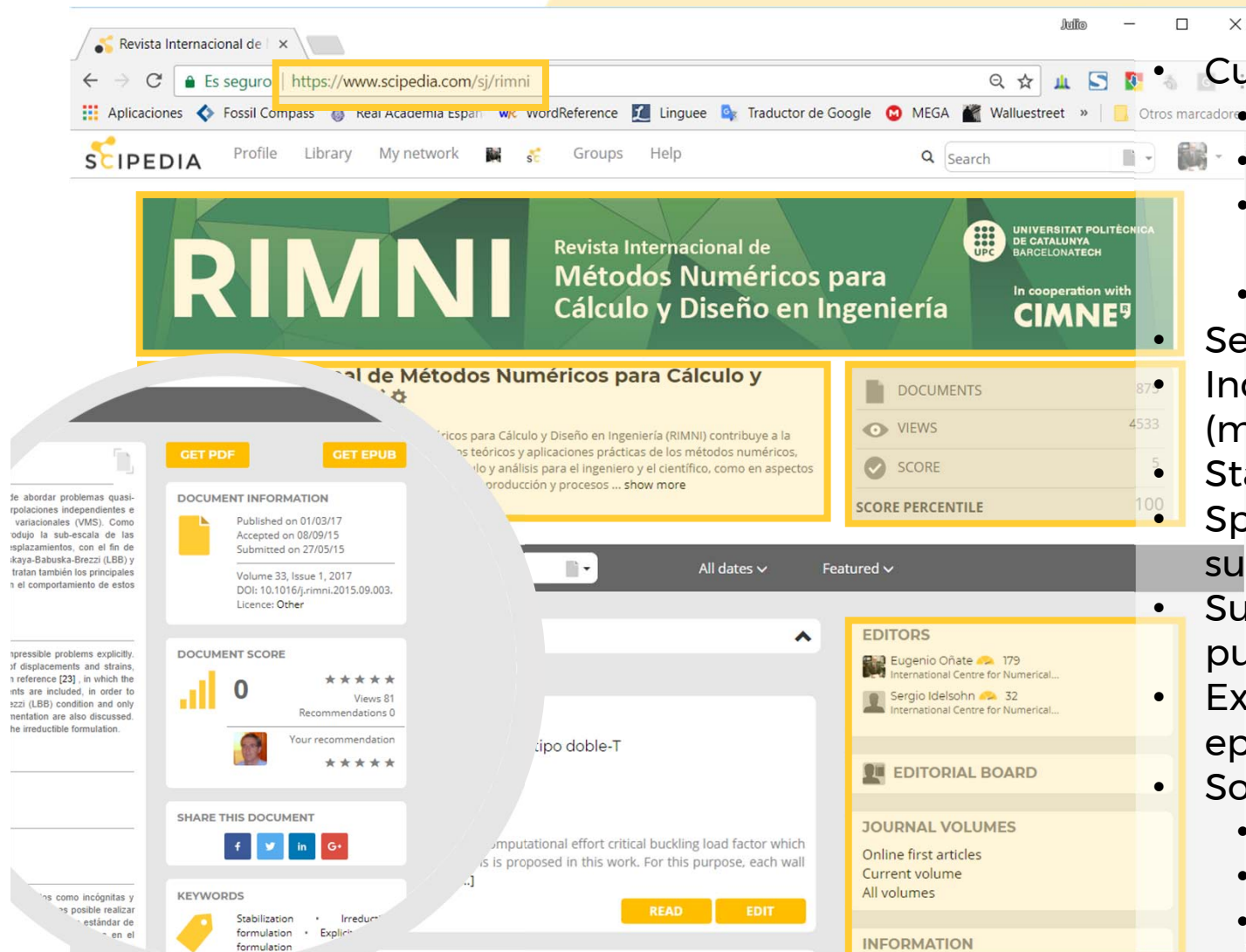


# What can Scipedia offer ... ... for journals?

- Customized home page
- Advanced journal (congress) management platform
- Support for blind peer-review and collaborative open peer-review
- Support for enriched web publishing
- Export tools: pdf and epub



# What can Scipedia offer ... ... for journals?



Customized page

• URL

• Title, banner, about  
• Journal / authors  
info

• ...

• Search tools

• Indexing support  
(metadata)

• Statistics (altmetrics)

• Specialized editorial  
support

• Supports enriched web  
publishing

• Export tools: pdf and  
epub

• Social network tools

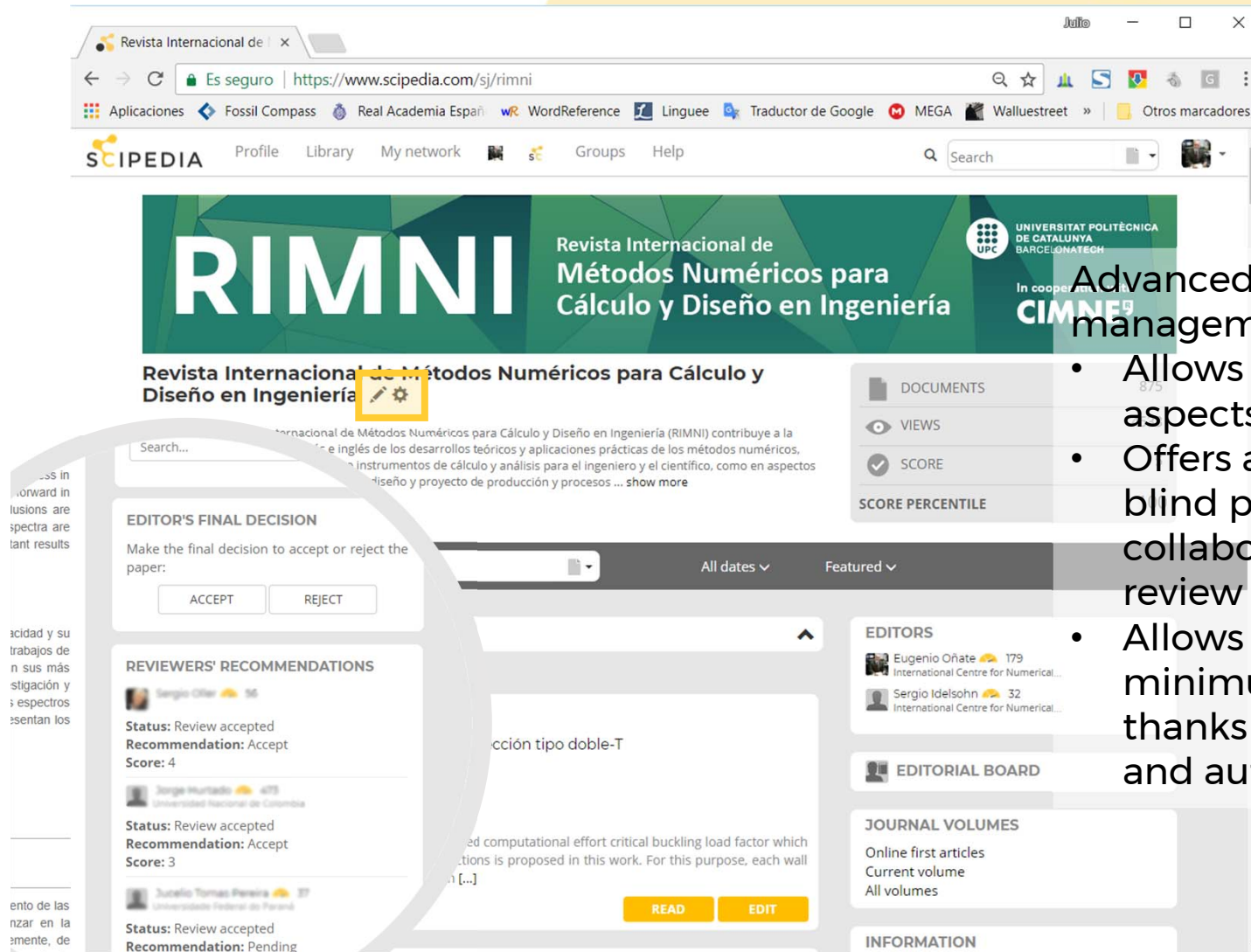
• Share document

• Discussion page

• Recommendations



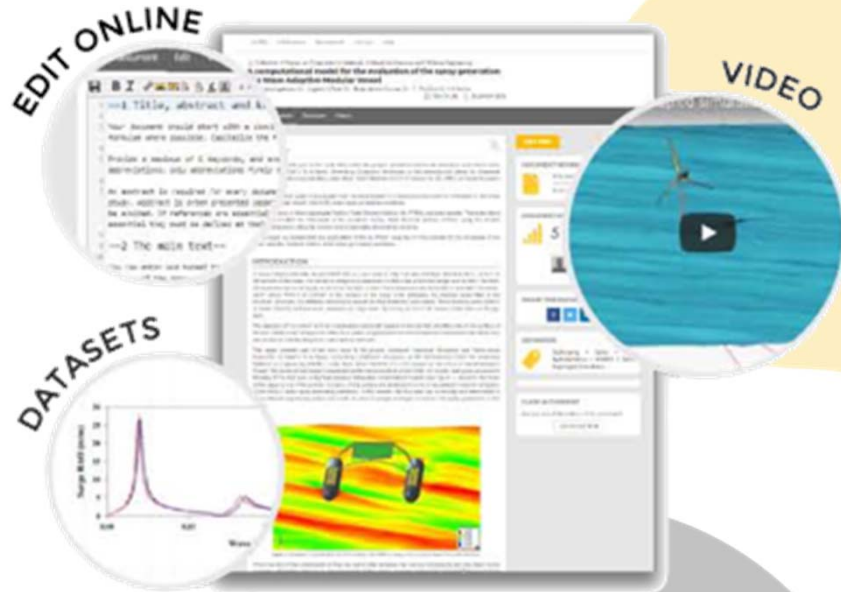
# What can Scipedia offer ... ... for journals?



Advanced journal (and congress) management platform

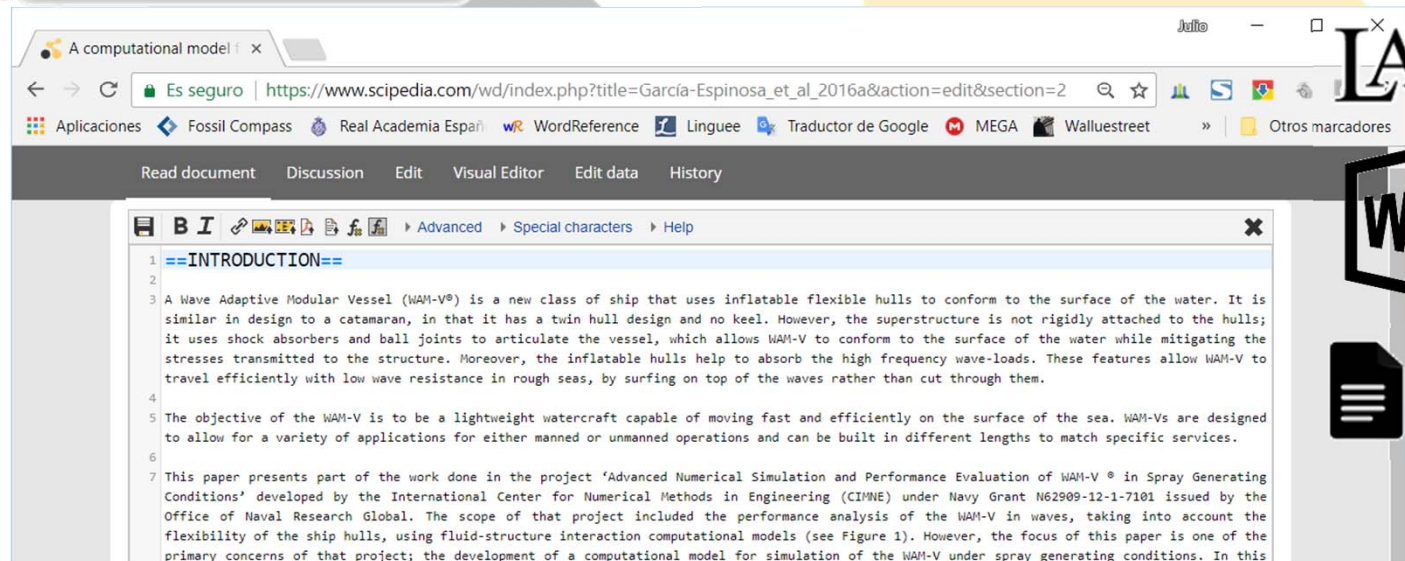
- Allows editors to handle all aspects of publication.
- Offers advanced support for blind peer-review and collaborative open peer-review (interactive).
- Allows reducing to the minimum the editorial effort, thanks to our self-publishing and automation services.

# What can Scipedia offer ... ... for journals?



## Enriched web scientific publishing

- Upload your manuscript created in LaTeX, Word or Google Docs using Scipedia import tools.
- Use Scipedia's online (collaborative) editor to improve its content and to insert supplementary material such as video, datasets, models and more.



L<sup>A</sup>T<sub>E</sub>X



Google  
Docs

The Scipedia logo features a stylized 'S' and 'C' in yellow, with the 'C' having a small circle at its top. The word 'SCIPEDIA' is in a bold, dark grey sans-serif font. Below it, the phrase 'is run by its community' is in a black sans-serif font, with 'is' underlined in yellow.

# SCIPEDIA

is run by its community

Our goal is to ensure the community has a strong voice about the future of Scipedia. We will be glad to hear your comments, suggestions or feature requests at:

**[communityvoice@scipedia.com](mailto:communityvoice@scipedia.com)**

For any other question, you can contact us at:

**[info@scipedia.com](mailto:info@scipedia.com)**





Your Open Science and  
Research Publishing Platform

